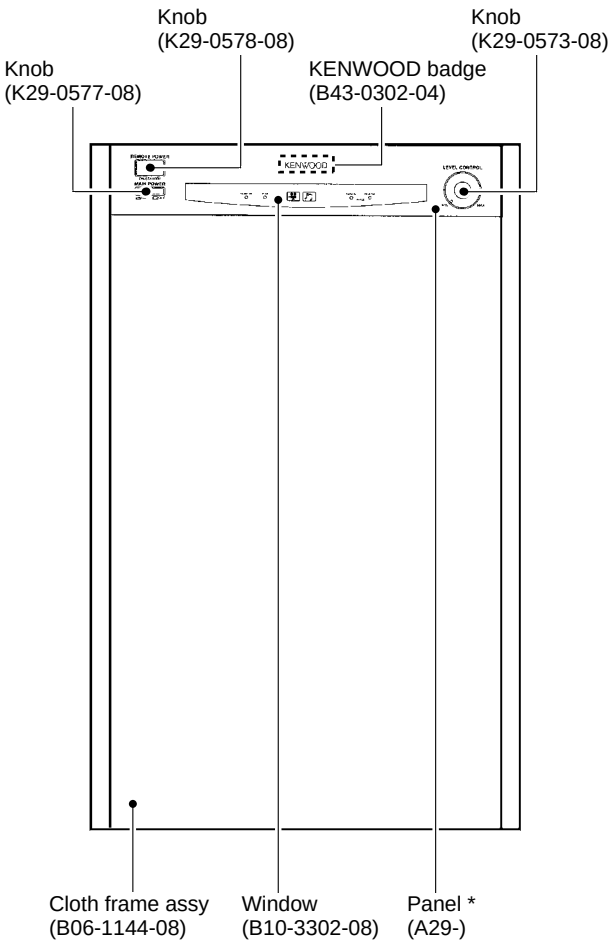
POWERED SUBWOOFER

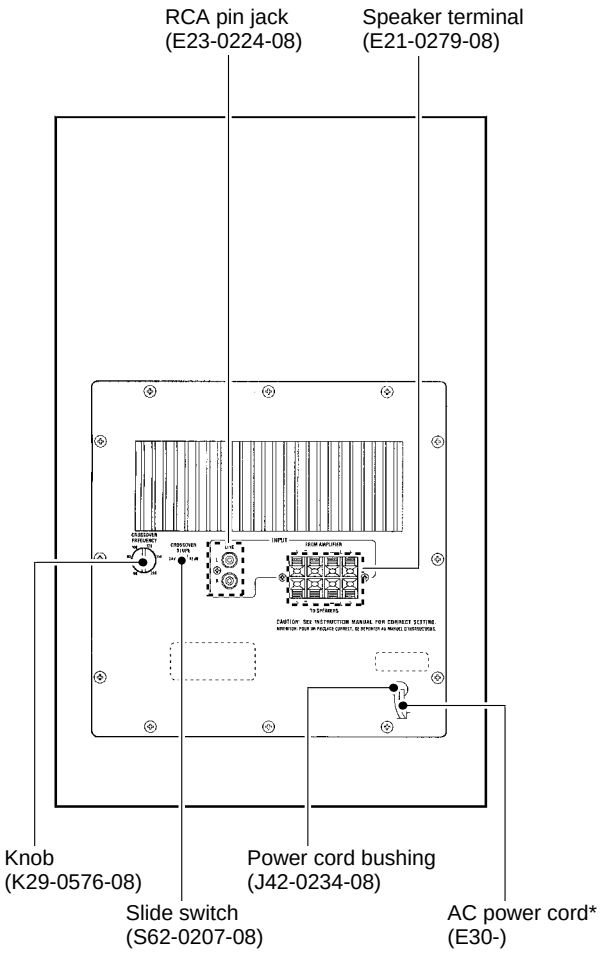
103SW/SW-301
1050SW/SW-501

SERVICE MANUAL

KENWOOD

©1997-10/B51-5376-00 (K/K) 2295





Note : Refer to SW-900 service manual(B51-4228-00) if you need the microprocessor information.

*** Refer to parts list on page 8.**

SPECIFICATIONS

	1050SW(SW-501)	103SW(SW-301)
Amplifier		
Power output	150 watts RMS into 4 ohms, from 20 Hz to 200 Hz, with no more than 0.09%total harmonic distortion	100 watts RMS into 4 ohms, from 20 Hz to 200 Hz,with no more than 0.09%total harmonic distortion
Phase switching	Normal, Reverse	Normal, Reverse
Input sensitivity and input impedance		
RCA-type jack	70 mV (12 k-ohms)	70 mV (12 k-ohms)
Push-type terminals	1.7 V(15 k-ohms)	1.7 V(15 k-ohms)
Supply voltage	AC 110 V~120 V (1050SW)	AC 110 V~120 V(103SW)
Rated power consumption	150 watts	110 watts
Speaker		
Enclosure	Ported	Ported
Speaker units	12 in (300 mm) polypropylene cone	10 in (250 mm) polypropylene cone
Nominal impedance	4 ohms	4 ohms
Width	14.3 in (363 mm)	11.8 in (300 mm)
Height	21.7 in (550 mm)	18.9 in (480 mm)
Depth	18.9 in (480 mm) with grille	15.6 in (395 mm)
Net weight	53 lb (24 kg)	40 lb (18 kg)

Since Kenwood follows a policy of continuous advancement in development, these specifications may change without notice.

103SW/SW-301/1050SW/SW-501

CONTENTS/DISASSEMBLY FOR REPAIR/ADJUSTMENT

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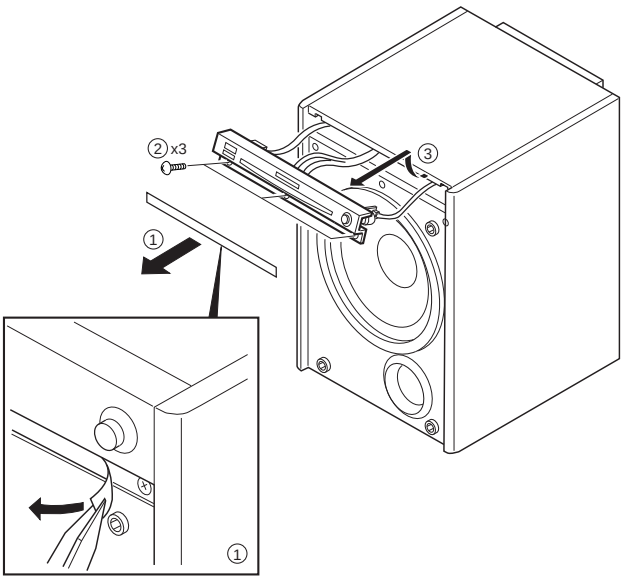
DISASSEMBLY FOR REPAIR

< How to remove the front panel >

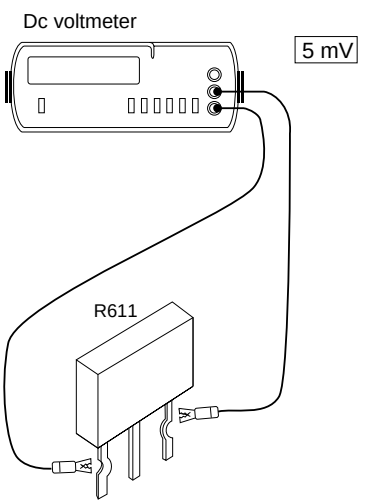
1. Remove the decoration plate (①) by a pincette to the bottom of the front panel, then remove the 3 screws (②).
2. 103SW/SW-301: Remove the front panel in the upper slanting direction of the arrow (③).
   1050SW/SW-501 : Remove the front panel just the frontwards.



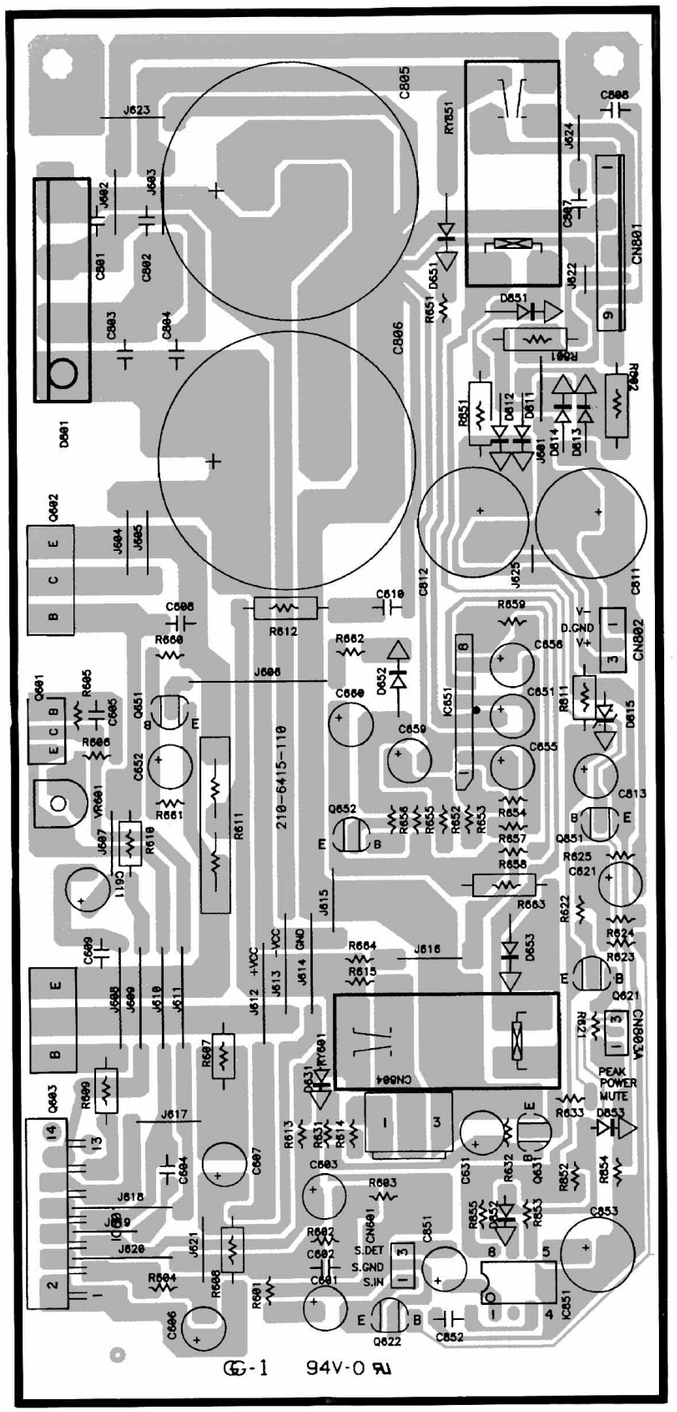
ADJUSTMENT

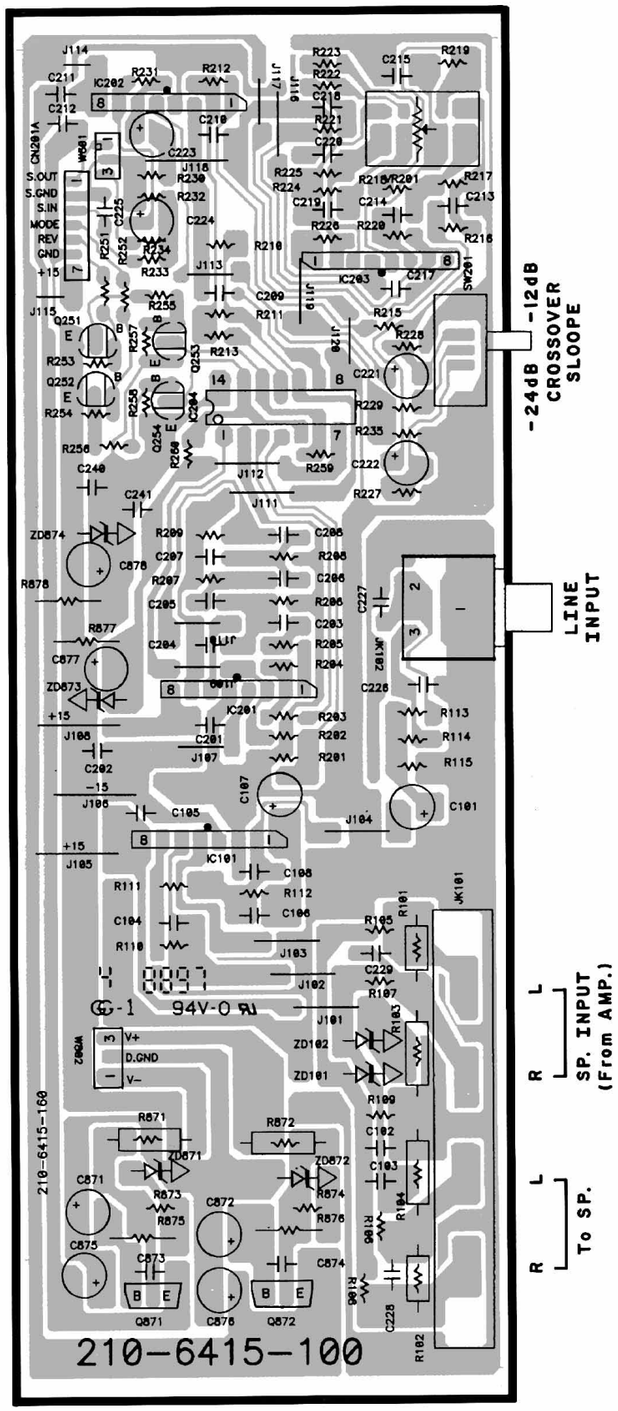
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, the individual switches should be set as following : POWER : ON NO SIGNAL INPUT							
1	IDLE CURRENT	–	Connect a DC voltmeter to R611	VOLUME : 0	VR601	5 mV	(a)

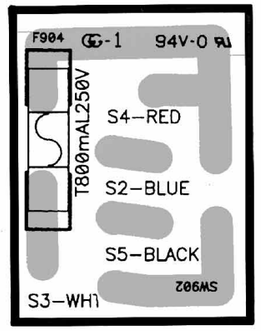
(a)

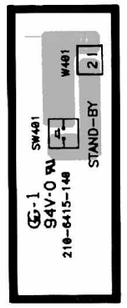


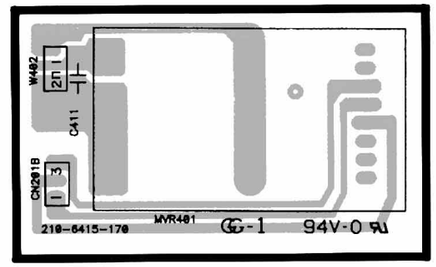
PC BOARD(Component side view)

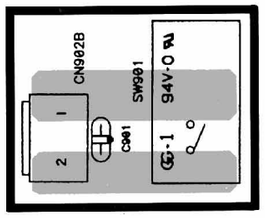


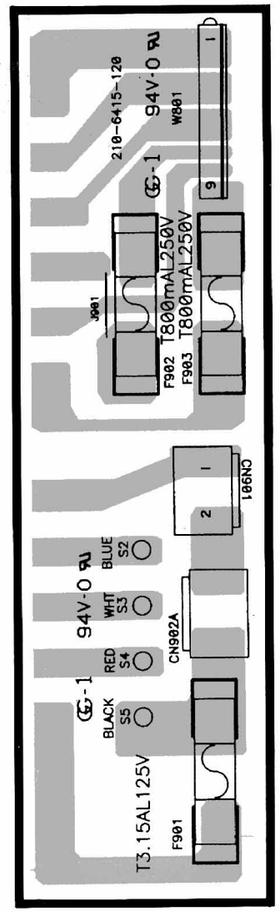


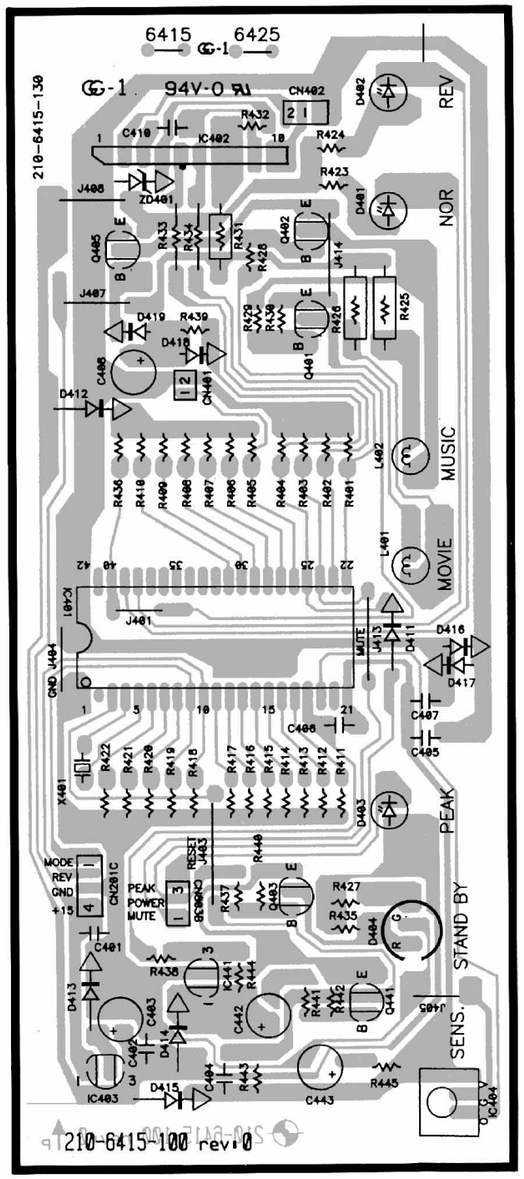




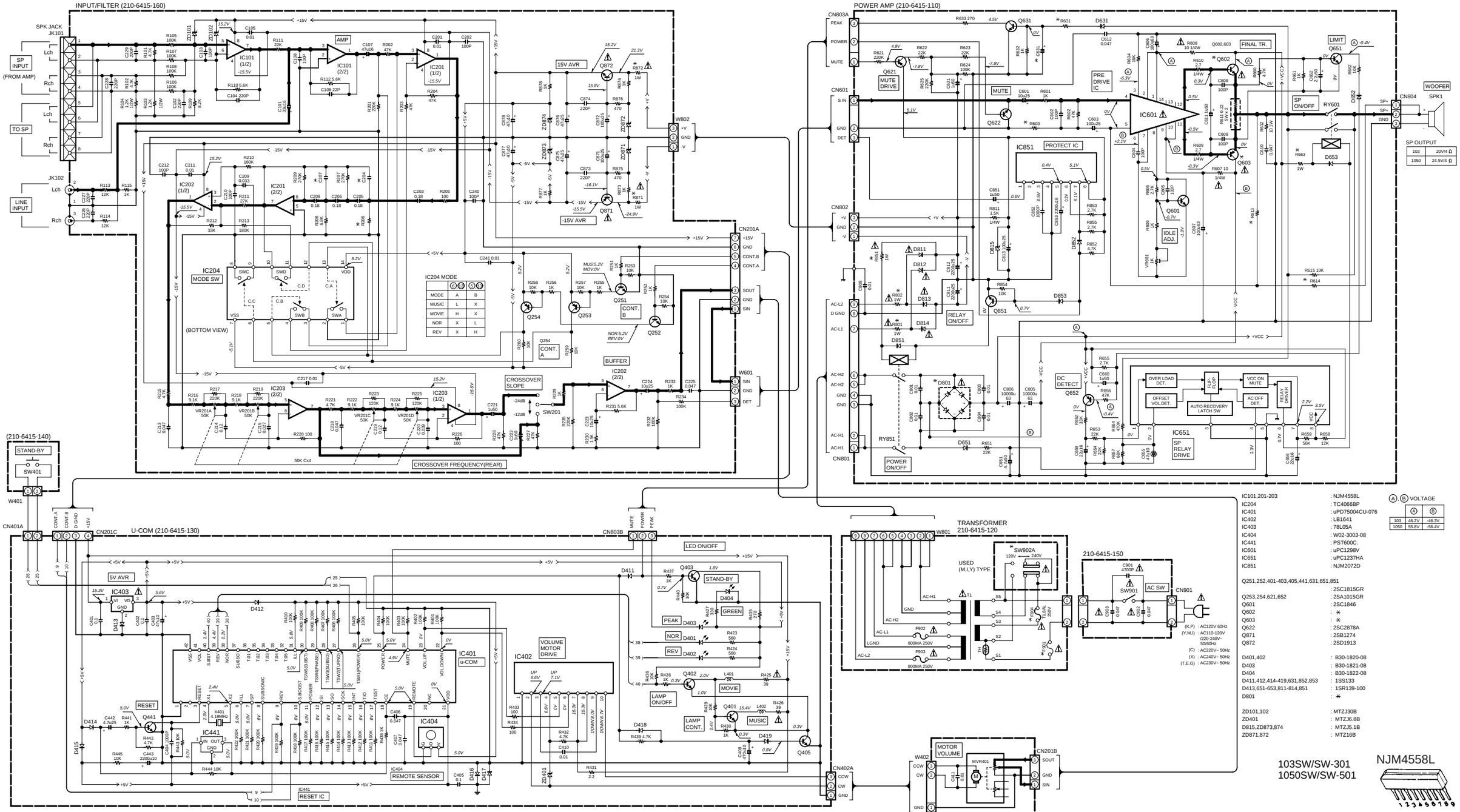








Refer to the schematic diagram for the value of resistors and capacitors.



IC101,201-203	: NJM4558L
IC204	: TC4066BP
IC401	: uPD75004CU-076
IC402	: LB1641
IC403	: 78L05A
IC404	: W02-3003-08
IC441	: PST600C
IC601	: uPC1298V
IC651	: uPC1237HA
IC851	: NJM2072D
Q251,252,401-403,405,441,631,651,851	: 2SC1815GR
Q253,254,621,652	: 2SA1015GR
Q601	: 2SC1846
Q602	: *
Q603	: *
Q622	: 2SC2878A
Q871	: 2SB1274
Q872	: 2SD1913
D401,402	: B30-1820-08
D403	: B30-1821-08
D404	: B30-1822-08
D411,412,414-419,631,852,853	: 1SS133
D413,651-653,811-814,851	: 1SR139-100
D801	: *
ZD101,102	: MTZJ30B
ZD401	: MTZJ6.8B
D815,ZD873,874	: MTZJ5.1B
ZD871,872	: MTZ16B

Ⓐ, Ⓑ VOLTAGE

	Ⓐ	Ⓑ
103	46.2V	-46.3V
1050	55.8V	-56.4V

103SW/SW-301
1050SW/SW-501

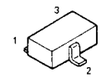
NJM4558L

DESTINATION / COUNTRY	ABB	C204	C207	C631	F901	F902,3	F904	R206	R603	R606	R613
USA	K	0.047UF/0.056UF	0.047UF/0.039UF	100U10/220U16	3.15A/4A	0.8A/0.8A	-/-	12K/27K	1K/820	-/1K	220K/270K
CANADA	P	0.047UF/0.056UF	0.047UF/0.039UF	100U10/220U16	3.15A/4A	0.8A/0.8A	-/-	12K/27K	1K/820	-/1K	220K/270K
EUROPE	E	0.047UF/0.056UF	0.047UF/0.039UF	100U10/220U16	1.6A/2A	0.8A/0.8A	-/-	12K/27K	1K/820	-/1K	220K/270K
ENGLAND	T	0.047UF/0.056UF	0.047UF/0.039UF	100U10/220U16	1.6A/2A	0.8A/0.8A	-/-	12K/27K	1K/820	-/1K	220K/270K
GERMANY	G	0.047UF/0.056UF	0.047UF/0.039UF	100U10/220U16	1.6A/2A	0.8A/0.8A	-/-	12K/27K	1K/820	-/1K	220K/270K
AUSTRALIA	X	0.047UF/0.056UF	0.047UF/0.039UF	100U10/220U16	1.6A/2A	0.4A/0.4A	-/-	12K/27K	1K/820	-/1K	180K/180K
CHINA	C	0.047UF/-	0.047UF/-	100U10/-	1.6A/-	0.4A/-	-/-	12K/-	1K/-	-/-	180K/-
GENERAL MARKET	M	0.047UF/0.056UF	0.047UF/0.039UF	100U10/220U16	1.6A/2A	0.4A/0.4A	1.6A/2A	12K/27K	1K/820	-/1K	180K/180K
MALAYSIA	I	0.047UF/0.056UF	0.047UF/0.039UF	100U10/220U16	1.6A/2A	0.4A/0.4A	1.6A/2A	12K/27K	1K/820	-/1K	180K/180K
PX	Y	0.047UF/-	0.047UF/-	100U10/-	1.6A/-	0.8A/-	1.6A/-	12K/-	1K/-	-/-	220K/-
JAPAN	J	0.047UF/0.056UF	0.047UF/0.039UF	100U10/220U16	3.15A/4A	0.4A/0.4A	-/-	12K/27K	1K/820	-/1K	15K/18K

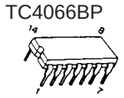
R614	R631	R663	R801,2	R851	R871	R872	SW902A	D801	Q602	Q603
82K/120K	18K/22K	820/1.5K	4.7/4.7	220/-	4.7/-	4.7/-	X/X	D3SBA20/DSSBA20	2SC5198/2SC3281 (R)	2SA1941 (R) /2SA1302 (R)
82K/120K	18K/22K	820/1.5K	4.7/4.7	220/-	4.7/-	4.7/-	X/X	D3SBA20/DSSBA20	2SC5198/2SC3281 (R)	2SA1941 (R) /2SA1302 (R)
82K/120K	18K/22K	820/1.5K	4.7/4.7	220/-	220/-	10/-	X/X	D3SBA20/DSSBA20	2SC5198/2SC3281 (R)	2SA1941 (R) /2SA1302 (R)
82K/120K	18K/22K	820/1.5K	4.7/4.7	220/-	220/-	10/-	X/X	D3SBA20/DSSBA20	2SC5198/2SC3281 (R)	2SA1941 (R) /2SA1302 (R)
82K/120K	18K/22K	820/1.5K	4.7/4.7	220/-	220/-	10/-	X/X	D3SBA20/DSSBA20	2SC5198/2SC3281 (R)	2SA1941 (R) /2SA1302 (R)
82K/120K	15K/18K	560/-	-/-	180/-	4.7/-	4.7/-	X/X	D3SBA20/DSSBA20	2SC5198/2SC3281 (R)	2SA1941 (R) /2SA1302 (R)
56K/-	15K/-	560/-	-/-	180/-	4.7/-	4.7/-	X/-	D3SBA20/-	2SC5198/-	2SA1941 (R) /-
56K/75K	15K/18K	560/-	-/-	180/-	4.7/-	4.7/-	O/O	D3SBA20/DSSBA20	2SC5198/2SC3281 (R)	2SA1941 (R) /2SA1302 (R)
56K/75K	15K/18K	560/-	-/-	180/-	4.7/-	4.7/-	O/O	D3SBA20/DSSBA20	2SC5198/2SC3281 (R)	2SA1941 (R) /2SA1302 (R)
82K/-	18K/-	820/-	4.7/-	220/-	220/-	10/-	O/-	D3SBA20/-	2SC5198/-	2SA1941 (R) /-
56K/75K	15K/18K	270/270	-/-	180/180	4.7/4.7	4.7/4.7	X/X	D3SBA20/DSSBA20	2SC5198/2SC3281 (R)	2SA1941 (R) /2SA1302 (R)

Note: 103SW(SW-301)/1050SW(SW-501)

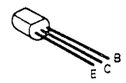
PST600C



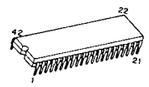
TC4066BP



2SA1015GR
2SC2878A

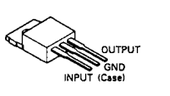


UPD75004CU-076



UPC1237HA

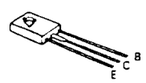
78L05A



LB1641

UPC1298V

2SC1846



2SB1274
2SD1913

Y19-3900-10

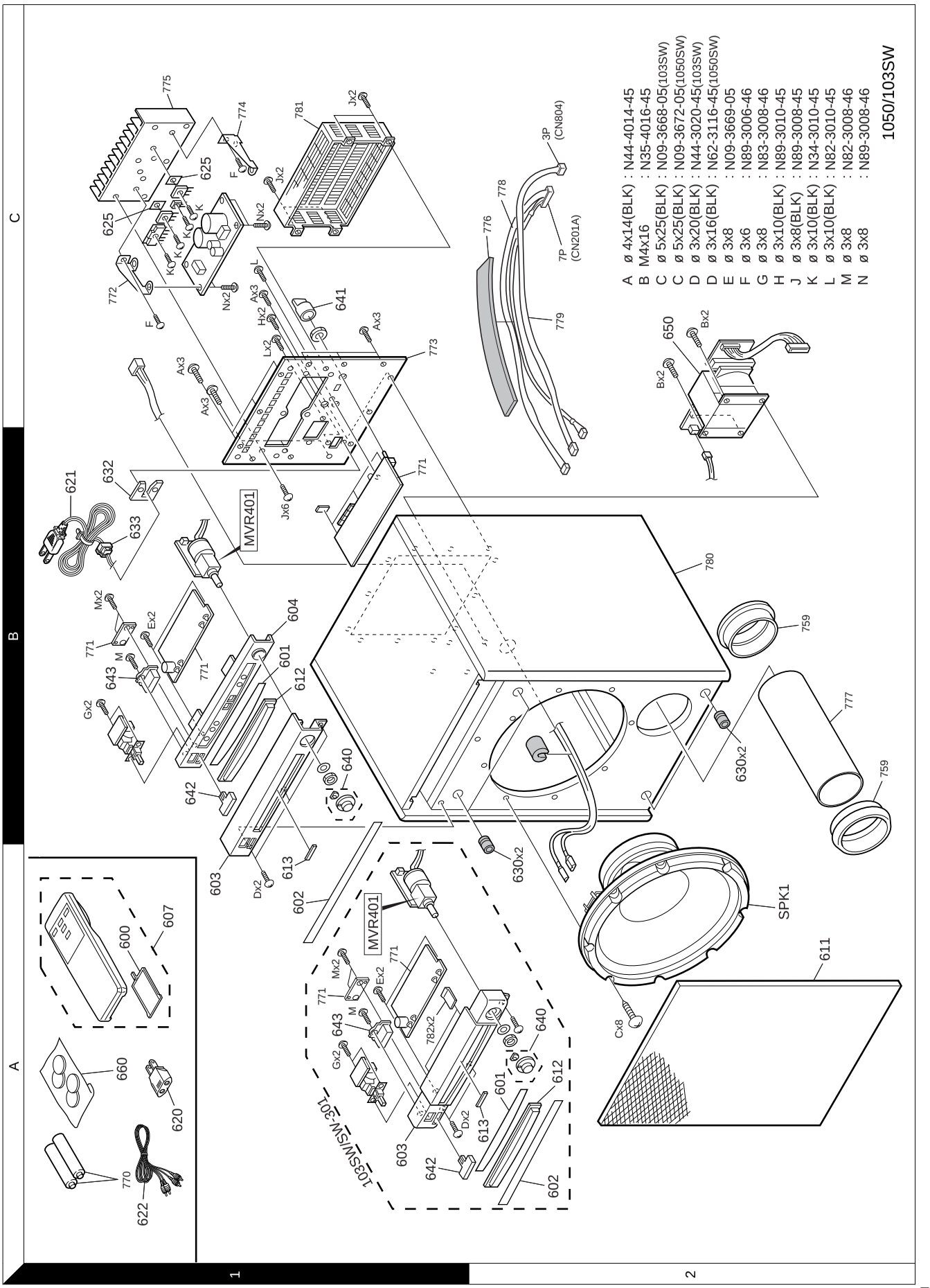
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter. The measurement value may vary depending on the measuring instruments used or on the product.

103SW/SW-301/1050SW/SW-501

KENWOOD

EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
103SW/SW-301 (103SW: KP type only)						
600	1A	✻	A09-0753-05	BATTERY COVER		
601	2A	✻	A29-0915-08	PVC TRIM FOR WINDOW		
602	2A	✻	A29-0917-08	PVC TRIM FOR PANEL TOP		
603	1A	✻	A29-0919-08	PANEL TOP W/PAINTING & LOGO	KP	
603	1A	✻	A29-0920-08	PANEL TOP W/PAINTING & LOGO	MICTEG	
603	1A	✻	A29-0920-08	PANEL TOP W/PAINTING & LOGO	XY	
607	1A	✻	A70-0404-05	REMOTE CONTROL ASSY		
611	2A	✻	B06-1144-08	CLOTH FRAME ASSY		
612	2A	✻	B10-3302-08	WINDOW		
613	2A		B43-0302-04	BADGE		
⚠ 620	1A		E03-0115-05	AC PLUG ADAPTER	MIY	
⚠ 621	1B	✻	E30-5432-08	AC CORD,181-SA-W541	KP	
⚠ 621	1B	✻	E30-5438-08	AC CORD	MIEGY	
⚠ 621	1B	✻	E30-5439-08	AC CORD	X	
⚠ 621	1B	✻	E30-5440-08	AC CORD	T	
⚠ 621	1B	✻	E30-5442-08	AC CORD	C	
622	1C	✻	E30-5466-08	AUDIO CORD		
625	1C		F20-0702-08	ISOLATION SHEET 19X24		
630	2A,2B		J19-3988-08	CATCH BLACK(75)		
632	1B		J21-8750-08	AC CORD HOLDER		
633	1B	✻	J42-0234-08	CORD BUSHING,3-703-244-021		
640	2A	✻	K29-0573-08	VOLUME KNOB W/PAINTING		
641	1C	✻	K29-0576-08	LOW/PASS PUSH KNOB W/PAINTING		
642	1A	✻	K29-0577-08	POWER PUSH KNOB W/PAINTING		
643	1A	✻	K29-0578-08	TACT PUSH KNOB W/PAINTING		
⚠ 650	2C	✻	L07-3010-05	POWER TRANSFORMER	KP	
⚠ 650	2C	✻	L07-3011-05	POWER TRANSFORMER	MIY	
⚠ 650	2C	✻	L07-3012-05	POWER TRANSFORMER	C	
⚠ 650	2C	✻	L07-3013-05	POWER TRANSFORMER	TEG	
⚠ 650	2C	✻	L07-3014-05	POWER TRANSFORMER	X	
660	1A	✻	J02-0622-08	FOOT		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	TEG	
-			B46-0326-03	WARRANTY CARD	C	
-			B46-0330-03	WARRANTY CARD	KY	
-			B59-1104-00	SERVICE STATIONS LIST	Y	
-		✻	B61-0886-00	INSTRUCTION MANUAL	KP	
-		✻	B61-0887-00	INSTRUCTION MANUAL	MIXY	
-		✻	B61-0888-00	INSTRUCTION MANUAL	TEG	
-		✻	B61-0889-00	INSTRUCTION MANUAL	C	
-		✻	B61-0940-00	INSTRUCTION MANUAL	Y	
-		✻	H10-6447-08	PLYFOAM 310G/SET(TOP)		
-		✻	H10-6448-08	PLYFOAM 310G/SET(BOTTOM)		
-		✻	H21-1284-08	MIRAMAT 1640X540X0.5T		
-		✻	H25-2180-08	PROTECTION BAG	CY	
-		✻	H51-0979-08	CARTON	KP	
-		✻	H51-0980-08	CARTON	MIY	
-		✻	H51-0981-08	CARTON	C	
-		✻	H51-0982-08	CARTON	TEGX	
A			N44-4014-45	WOOD SCREW		
B			N35-4016-45	MACHINE SCREW(M4X16)		
C		✻	N09-3668-05	WOOD SCREW		
D			N44-3020-45	WOOD SCREW		

L : Scandinavia **K :** USA **P :** Canada **R :** Mexico
Y : PX(Far East, Hawaii) **T :** Europe **E :** Europe **G :** Germany
Y : AAFES(Europe) **X :** Australia **M :** Other Areas

⚠ indicates safety critical components.

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
E		✻	N09-3669-05	SCREW		
F			N89-3006-46	SCREW		
G			N83-3008-46	SCREW		
H			N89-3010-45	SCREW		
J			N89-3008-45	SCREW		
K		✻	N34-3010-45	SCREW		
L			N82-3010-45	SCREW		
M			N82-3008-46	SCREW		
N			N89-3008-46	SCREW		
SPK1	2A	✻	T10-0782-15	SPEAKER 10,A25GU25-51C-D	KP	
SPK1	2A	✻	T10-0788-05	SPEAKER 10	MIXY	
SPK1	2A	✻	T10-0814-05	SPEAKER 10	C	
SPK1	2A	✻	T10-0822-05	SPEAKER 10	TEG	
1050SW/SW-501 (1050 SW: KP type only)						
600	1A		A09-0753-05	BATTERY COVER		
601	1B		A29-0915-08	PVC TRIM FOR WINDOW		
602	1A	✻	A29-0916-08	PVC TRIM FOR PANEL		
603	1A	✻	A29-0909-08	PANEL	KP	
603	1A	✻	A29-0921-08	PANEL	MIETGX	
604	1B	✻	A29-0922-08	PANEL ,FRONT		
607	1A		A70-0404-05	REMOTE CONTROL ASSY		
611	2A	✻	B06-1146-08	CLOTH FRAME ASSY		
612	1B		B10-3302-08	WINDOW		
613	1A		B43-0302-04	BADGE		
⚠ 620	2A		E03-0115-05	AC PLUG ADAPTER	MI	
⚠ 621	1B		E30-5432-08	AC CORD,181-SA-W541	KP	
⚠ 621	1B		E30-5438-08	AC CORD	MIEGY	
⚠ 621	1B		E30-5440-08	AC CORD	T	
622	1C		E30-5466-08	AUDIO CORD		
625	1C	✻	F20-0702-08	ISOLATION SHEET 19X24		
630	2A,2B		J19-3988-08	CATCH BLACK(75)		
632	1B	✻	J21-8750-08	AC CORD HOLDER		
633	1B		J42-0234-08	CORD BUSHING,3-703-244-021		
640	1B		K29-0573-08	VOLUME KNOB W/PAINTING		
641	1C		K29-0576-08	LOW/PASS PUSH KNOB W/PAINTING		
642	1B		K29-0577-08	POWER PUSH KNOB W/PAINTING		
643	1B		K29-0578-08	TACT PUSH KNOB W/PAINTING		
⚠ 650	2C	✻	L07-3015-05	POWER TRANSFORMER	KP	
⚠ 650	2C	✻	L07-3016-05	POWER TRANSFORMER	MI	
⚠ 650	2C	✻	L07-3017-05	POWER TRANSFORMER	TEG	
⚠ 650	2C	✻	L07-3018-05	POWER TRANSFORMER	X	
660	1A		J02-0622-08	F00T		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	TEG	
-			B46-0330-03	WARRANTY CARD	K	
-			B46-0336-03	WARRANTY CARD	P	
-		✻	B61-0886-00	INSTRUCTION MANUAL	KP	
-		✻	B61-0887-00	INSTRUCTION MANUAL	MIXY	
-		✻	B61-0888-00	INSTRUCTION MANUAL	TEG	
-		✻	H10-6449-08	PLYFOAM 392G/SET(TOP)		
-		✻	H10-6450-08	PLYFOAM BOTTOM		
-			H21-1285-08	MIRAMAT 1900X600X0.5T		
-		✻	H51-0983-08	CARTON	KP	
-		✻	H51-0984-08	CARTON	MI	
-		✻	H51-0986-08	CARTON	TEGX	

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A			N44-4014-45	WOOD SCREW				
B			N35-4016-45	MACHINE SCREW(M4X16)				
C			N09-3672-05	SCREW				
D			N62-3116-45	SCREW				
E			N09-3669-05	SCREW				
F			N89-3006-46	SCREW				
G			N83-3008-46	SCREW				
H			N89-3010-45	SCREW				
J			N89-3008-45	SCREW				
K			N34-3010-45	SCREW				
L			N82-3010-45	SCREW				
M			N82-3008-46	SCREW				
N			N89-3008-46	SCREW				
SPK1		✻	T10-0785-05	SPEAKER 10			KPTEG	
SPK1		✻	T10-0789-05	SPEAKER 10			MIX	
ELECTRIC PARTS								
D401,402		✻	B30-1820-08	LED				
D403		✻	B30-1821-08	LED				
D404		✻	B30-1822-08	LED				
L401,402		✻	B30-1819-08	LAMP,12V/60MA				
C101			CE04KW1C330M	ELECTRO	33UF	16WV		
C102			CC45FSL1H221K	CERAMIC	220PF	K		
C103			CC45FSL1H101J	CERAMIC	100PF	J		
C104			CC45FSL1H221K	CERAMIC	220PF	K		
C105			CQ92FM1H103J	MYLAR	0.010UF	J		
C106			CC45FSL1H220J	CERAMIC	22PF	J		
C107			CE04KW1C470M	ELECTRO	47UF	16WV		
C108			CC45FSL1H101J	CERAMIC	100PF	J		
C201			CQ92FM1H103J	MYLAR	0.010UF	J		
C202			CC45FSL1H101J	CERAMIC	100PF	J		
C203			CQ92FM1H184J	MYLAR	0.18UF	J		
C204	3		CQ92FM1H473J	MYLAR	0.047UF	J		
C204	5		CQ92FM1H563J	MYLAR	0.056UF	J		
C205,206			CQ92FM1H184J	MYLAR	0.18UF	J		
C207	5		CQ92FM1H393J	MYLAR	0.039UF	J		
C207	3		CQ92FM1H473J	MYLAR	0.047UF	J		
C208			CQ92FM1H184J	MYLAR	0.18UF	J		
C209			CQ92FM1H333J	MYLAR	0.033UF	J		
C210			CC45FSL1H101J	CERAMIC	100PF	J		
C211			CQ92FM1H103J	MYLAR	0.010UF	J		
C212			CC45FSL1H101J	CERAMIC	100PF	J		
C213			CQ92FM1H473J	MYLAR	0.047UF	J		
C214			CQ92FM1H124J	MYLAR	0.12UF	J		
C215			CQ92FM1H273J	MYLAR	0.027UF	J		
C217			CQ92FM1H103J	MYLAR	0.010UF	J		
C218			CQ92FM1H473J	MYLAR	0.047UF	J		
C219			CQ92FM1H124J	MYLAR	0.12UF	J		
C220			CQ92FM1H393J	MYLAR	0.039UF	J		
C221,222			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C223,224			CE04KW1E100M	ELECTRO	10UF	25WV		
C225			CQ92FM1H473J	MYLAR	0.047UF	J		
C226-229			CC45FSL1H221K	CERAMIC	220PF	K		
C240			CC45FSL1H101J	CERAMIC	100PF	J		
C241			CQ92FM1H103J	MYLAR	0.010UF	J		
C401,402			CQ92FM1H104J	MYLAR	0.10UF	J		

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C403			CE04KW1A470M	ELECTRO	47UF	10WV		
C404			CK45FB1H102K	CERAMIC	1000PF	K		
C405			CQ92FM1H104J	MYLAR	0.10UF	J		
C406,407			CQ92FM1H473J	MYLAR	0.047UF	J		
C408			CE04KW1A471M	ELECTRO	470UF	10WV		
C410,411			CQ92FM1H103J	MYLAR	0.010UF	J		
C442			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C443			CE04KW1A222M	ELECTRO	2200UF	10WV		
C601			CE04KW1E100M	ELECTRO	10UF	25WV		
C602			CC45FSL1H101J	CERAMIC	100PF	J		
C603			CE04KW1E101M	ELECTRO	100UF	25WV		
C604,605			CC45FSL1H101J	CERAMIC	100PF	J		
C606,607			CE04KW1J101M	ELECTRO	100UF	63WV		
C608,609			CC45FSL1H101J	CERAMIC	100PF	J		
C610			CQ92FM1H473J	MYLAR	0.047UF	J		
C611			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C621			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C631	3		CE04KW1A101M	ELECTRO	100UF	10WV		
C631	5		CE04KW1C221M	ELECTRO	220UF	16WV		
C651			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C652			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C655			CE04HW1A470M	NP-ELEC	47UF	10WV		
C656			CE04KW1C220M	ELECTRO	22UF	16WV		
C659			CE04KW1C220M	ELECTRO	22UF	16WV		
C660			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C801-804			CQ92FM1H103J	MYLAR	0.010UF	J		
C805,806		✻	C90-5024-08	ELECTRO	10000UF	63WV		
C807,808			CK45FB1H103M	CERAMIC	0.010UF	M		
C811,812			CE04KW1E222M	ELECTRO	2200UF	25WV		
C813			CE04KW1E101M	ELECTRO	100UF	25WV		
C851			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C852			CK45FB1H102K	CERAMIC	1000PF	K		
C853			CE04KW1C222M	ELECTRO	2200UF	16WV		
C871,872			CE04KW1E101M	ELECTRO	100UF	25WV		
C873,874			CC45FSL1H221K	CERAMIC	220PF	K		
C875,876			CE04KW1E470M	ELECTRO	47UF	25WV		
C877,878			CE04KW1A470M	ELECTRO	47UF	10WV		
⚠ C901			C91-1441-08	CERAMIC	4700PF	250WV		
⚠ C902,903		✻	C91-0211-08	FILM	4700PF	250WV		
JK101		✻	E21-0279-08	SPEAKER TERMINAL				
JK102		✻	E23-0224-08	RCA PIN JACK, LINE				
⚠ F901	3		F05-1623-05	FUSE,1.6A/250V			ETGXCM	
⚠ F901	3		F05-1623-05	FUSE,1.6A/250V			IY	
⚠ F901	5		F06-2021-05	FUSE,2A/250V			ETGXMI	
⚠ F901	3		F50-0072-05	FUSE,3.15A/125V			KP	
⚠ F901	5		F50-0073-05	FUSE,4A/125V			KP	
⚠ F902,903			F05-4016-05	FUSE,400MA/250V			XCMI	
⚠ F902,903			F05-8013-05	FUSE,800MA/250V			ETGY	
⚠ F902,903			F50-0062-05	FUSE,800MA/250V			KP	
⚠ F904	3		F05-1623-05	FUSE,1.6A/250V			MIY	
⚠ F904	5		F06-2021-05	FUSE,2A/250V			MI	
-		✻	J13-0210-08	FUSE HOLDER				
X401		✻	L78-0902-08	CRYSTAL				

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103SW/SW-301/1050SW/SW-501

PARTS LIST

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R103,104			RD14BB2H122J	RD	1.2K	J	1/2W		
⚠ R425,426			RD14BB2E390J	RD	39	J	1/4W		
R603	3		RD14BB2C102J	RD	1.0K	J	1/6W		
R603	5		RD14BB2C821J	RD	820	J	1/6W		
⚠ R606	5		RD14BB2C102J	RD	1.0K	J	1/6W		
⚠ R607,608			RN14BK2E100J	RN	10	J	1/4W		
R609,610			RN14BK2E2R7J	RN	2.7	J	1/4W		
R611			R90-0826-05	MULTI-COMP	0.22X2	J	5W		
R612			RS14GB3A100J	FL-PROOF RS	10	J	1W		
R613	3		RD14BB2C184J	RD	180K	J	1/6W	XCMI	
R613	5		RD14BB2C184J	RD	180K	J	1/6W	XMI	
R613	3		RD14BB2C224J	RD	220K	J	1/6W	KPETGY	
R613	5		RD14BB2C274J	RD	270K	J	1/6W	KPETGY	
R614	5		RD14BB2C124J	RD	120K	J	1/6W	KPETGY	
R614	3		RD14BB2C563J	RD	56K	J	1/6W	XCMI	
R614	5		RD14BB2C753J	RD	75K	J	1/6W	XMI	
R614	3		RD14BB2C823J	RD	82K	J	1/6W	KPETGY	
R631	3		RD14BB2C153J	RD	15K	J	1/6W	XCMI	
R631	5		RD14BB2C183J	RD	18K	J	1/6W	XMI	
R631	3		RD14BB2C183J	RD	18K	J	1/6W	KPETGY	
R631	5		RD14BB2C223J	RD	22K	J	1/6W	KPETGY	
R663	5		RS14GB3A152J	FL-PROOF RS	1.5K	J	1W	KPETGY	
R663	3		RS14GB3A561J	FL-PROOF RS	560	J	1W	XCMI	
R663	3		RS14GB3A821J	FL-PROOF RS	820	J	1W	KPETGY	
⚠ R801,802			RS14GB3A4R7J	FL-PROOF RS	4.7	J	1W	KPETGY	
R811			RN14BK2E151F	RN	150	F	1/4W		
⚠ R851	3		RS14GB3A181J	FL-PROOF RS	180	J	1W	XCMI	
⚠ R851	3		RS14GB3A221J	FL-PROOF RS	220	J	1W	KPETGY	
⚠ R871	3		RS14GB3A221J	FL-PROOF RS	220	J	1W	ETGY	
⚠ R871	3		RS14GB3A4R7J	FL-PROOF RS	4.7	J	1W	KPXCMI	
⚠ R872	3		RD14GB2H100J	FL-PROOF RD	10	J	1/2W	ETGY	
⚠ R872	3		RS14GB3A4R7J	FL-PROOF RS	4.7	J	1W	KPXCMI	
VR201		✻	R31-0409-08	POTENTIOMETER	CROSSOVER FREQ				
VR601		✻	R31-0408-08	TRIMMING POT	BIAS				
RY601			S51-2092-05	RELAY	SPEAKER				
RY851			S51-2094-05	RELAY	POWER				
SW201		✻	S62-0207-08	SLIDE SWITCH	SLOPE				
SW401		✻	S70-0203-08	TACT SWITCH	STANDBY				
⚠ SW901		✻	S68-0202-08	POWER SWITCH					
⚠ SW902A		✻	S31-2115-05	SLIDE SWITCH	VOLTAGE			MICY	
D411,412			1SS133	DIODE					
D413			1SR139-100	DIODE					
D414-419			1SS133	DIODE					
D631			1SS133	DIODE					
D651-653			1SR139-100	DIODE					
⚠ D801	3	✻	D3SBA20	DIODE					
⚠ D801	5		D5SBA20	DIODE					
⚠ D811-814			1SR139-100	DIODE					
D815			MTZJ5.1B	ZENER DIODE					
D851			1SR139-100	DIODE					
D852,853			1SS133	DIODE					
IC101			NJM4558L	IC(OP AMP X2)					
IC201-203			NJM4558L	IC(OP AMP X2)					
IC204			TC4066BP	IC(ANALOG/ DIGITAL SW)					

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IC401			UPD75004CU-076	IC(4bit MICROPROCESSOR)		
IC402			LB1641	IC(MOTOR DRIVER)		
⚠ IC403			78L05A	IC(VOLTAGE REGULATOR/+5V)		
IC404			W02-3003-08	REMOTE PREAMP		
IC441			PST600C	IC(SYSTEM RESET)		
⚠ IC601			UPC1298V	IC(POWER AMP DRIVER)		
IC651			UPC1237HA	IC(POWER AMP)		
IC851			NJM2072D	IC		
Q251,252			2SC1815GR	TRANSISTOR		
Q253,254			2SA1015GR	TRANSISTOR		
Q401-403			2SC1815GR	TRANSISTOR		
Q405			2SC1815GR	TRANSISTOR		
Q441			2SC1815GR	TRANSISTOR		
Q601			2SC1846	TRANSISTOR		
⚠ Q602	5		2SC3281(R)	TRANSISTOR		
⚠ Q602	3	✻	2SC5198	TRANSISTOR		
⚠ Q603	5		2SA1302(R)	TRANSISTOR		
⚠ Q603	3		2SA1941(R)	TRANSISTOR		
Q621			2SA1015GR	TRANSISTOR		
Q622			2SC2878A	TRANSISTOR		
Q631			2SC1815GR	TRANSISTOR		
Q651			2SC1815GR	TRANSISTOR		
Q652			2SA1015GR	TRANSISTOR		
Q851			2SC1815GR	TRANSISTOR		
⚠ Q871			2SB1274	TRANSISTOR		
⚠ Q872			2SD1913	TRANSISTOR		
ZD101,102			MTZJ30B	ZENER DIODE		
ZD401			MTZJ6.8B	ZENER DIODE		
ZD871,872			MTZJ16B	ZENER DIODE		
ZD873,874			MTZJ5.1B	ZENER DIODE		

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Note:
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KENWOOD CORPORATION
14-6,Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150 Japan
KENWOOD SERVICE CORPORATION
P.O BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.